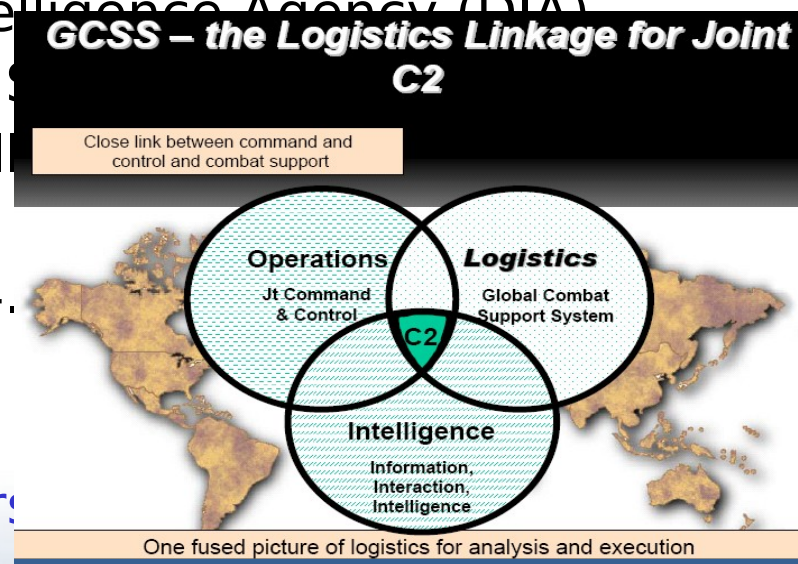


Global Combat Support System- Joint Program Overview

AUGUST 2014

About GCSS-J

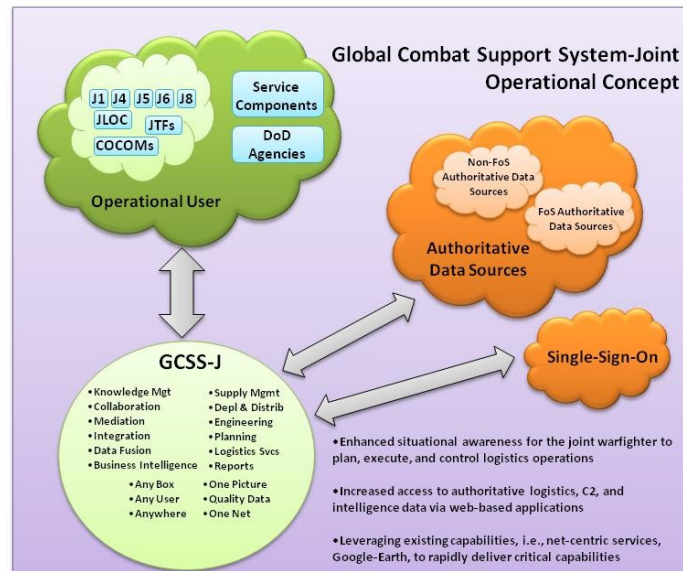
- Functional Sponsor: Director for Logistics Joint Staff (DJ4)
- Acquisition Category: 1AC
- Milestone Decision Authority: DISA Component Acquisition Executive
- Operational Test Authority: Joint Interoperability Test Command (JITC)
- Certifying Agency: Defense Intelligence Agency (DIA)
- Designated Approval Authority: S
- Mission Assurance Level: MAC II
- Requirements Authority: JS J4
- Current Operating System: v7.4.
- Customers:
 - Combatant Commands
 - Joint Task Force Commanders
 - Other Agencies
- Operational Concept:
 - Strategic Servers



Operational View

Joint Staff Focused Logistics Vision:

Dynamic Logistics -> Nothing Constrained -> Everything Possible



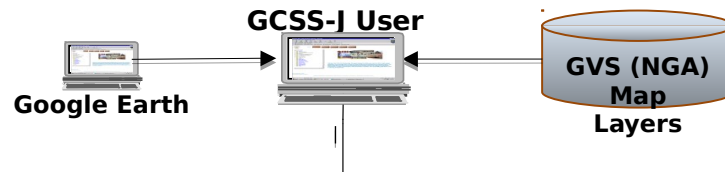
- ☑ The **right** personnel, equipment, supplies, and support
- ☑ In the **right** place
- ☑ At the **right** time
- ☑ In the **right** quantities
- ☑ Across the **full spectrum** of military operations

- Delivers accurate, timely, and relevant information to the joint logistics Warfighter
 - Enables asset visibility from disparate authoritative data sources to provide the Warfighter an integrated picture of the battlespace
- Operates in a web-centric / net-centric environment to provide information to authorized users regardless of geographic location
- Combines logistics information with operations and intelligence to provide the joint Warfighter the ability to plan, execute, and control logistics operations.

GCSS-J Provides Enhanced Decision Support Tools and Situational Awareness to the Warfighter

Functional View

Increment 8
2014-07-24



Gold = SIPR only
Green = NIPR only

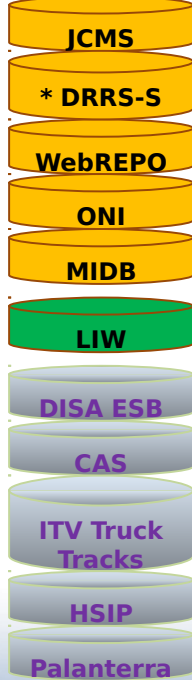


Web Service Consumer

SSO for
DDP
DDSR

Security Gateway (DataPower)
Security: DOD PKI and **Form-based Authentication**

Incoming
Web Services



GCSS-J Home Page

Announcements, Datasource Availability, Links, Memberships, Data Import

Single Sign-on for DLA

Joint Capability Area - (JCA) Environment Folders

- 1.4 **Health Readiness** - Discover medical supplies and equipment
- 4.1 **Deployment & Distribution** - Monitor force deployments and manage distribution efforts
- 4.2 **Supply** - View and manage all classes of supply - **log analysis**
- 4.3 **Maintain** - Discover maintenance and repair assets
- 4.4 **Logistics Services** - Locate supplies and equipment
- 4.5 **Operations Contract Support** - View supplier agreements and contracts
- 4.6 **Engineering** - Find construction and building resources
- 4.7 **Installations Support** - Locate infrastructure and installations
- 5.3 **Planning** - Tools to facilitate planning activities

LogCOP & Dashboards (running on QWS)

- LogCOP
- User-defined Dashboards
- Widgets
- Widget Marketplace

Data Services

Enterprise Data Services

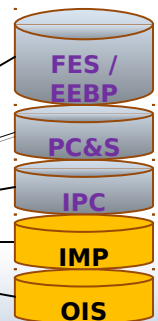
(EDS)

JDBC Connections

Oracle

Special - ABFC, GeoExPT, NGA-WPI, SDDC, FAD

File Uploads

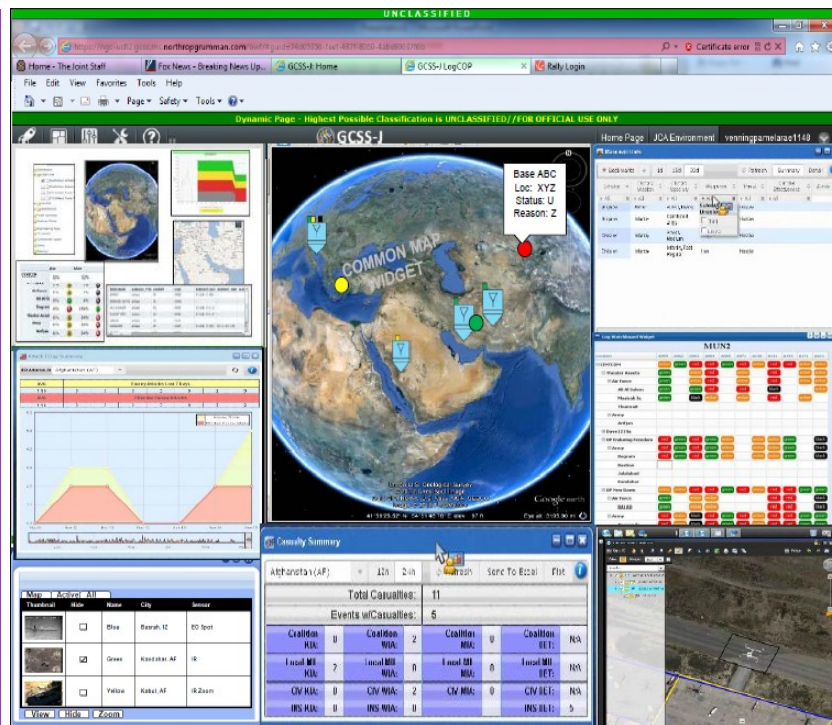


Global Combat Support System -

Joint
Providing Joint Logisticians with **Visibility** & **Decision Support**
tools to Effectively
Plan & Execute Logistics Support for Current & Future

Primary information technology application to provide a single source of visibility & decision support for the Joint logistician

Near real-time, web-based, accurate, actionable visibility within a Logistics Common Operational Picture (LogCOP)



Built on existing and emerging technology, products, procedures, & integration strategies

Utilizes a services-oriented architecture to link the Joint logistician to component, Service, agency, and multinational data

Links operators, intelligence, & logisticians across Joint Forces, Services, and support agencies to enable net-centric, collaborative planning & execution

Increment 8 Development Priorities

1. JCA 4.1 Deployment & Distribution
2. JCA 4.2 Supply
3. JCA 5.3 Planning

**2014
primary Focus**

4. JCA 4.4 Logistics Services
5. JCA 4.7 Base & Installation Support
6. Interagency Coordination
7. JCA 4.5 Operational Contract Support
8. JCA 4.6 Engineering
9. Adaptive Logistics Network
10. JCA 1.4 Health Readiness
11. JCA 4.3 Maintain
12. Security Assistance
13. Homeland Defense

**Approved at
20 August 2013
GCSS Planners'
Board**

Customer Value

Logistics operator wants to track the serviceable inventory of 12 items identified by National Stock Number, determine the availability of substitute items, and map the location of supply points containing those items.

Using GCSS-J	Without GCSS-J
One query returns the 12 NSN items	Must query two different systems (FEDLOG and IGC-AV); returning 12 NSNs
Provides a roll up of each item, and a detailed inventory by supply point	Data not transferrable between systems; manual input and aggregation required
Automatically provides inventory of interchangeable and substitute NSNs	Must obtain substitute NSNs from FEDLOG and manually enter in IGC-AV sequentially
Automatically includes serviceable and unserviceable quantities displayed separately	Must export to Excel from IGC-AV and group or filter
Automatically display Supply points on the 3D Map Widget	No mapping capability...
Time Required: 5 minutes or less	Time Required: 1 - 2 hours

Capabilities

Legend: Blue font is for 7.4.2 capabilities; black font capabilities.

Supply

- Fuel/Munition Watchboards
- Wholesale Stocks (Classes II, IV, VII, IX)
- NSN Report
- War Reserves/APS
- Bulk Fuel IMP
- Fuels Report
- Munitions Report
- War Reserves/PREPO
- Prepositioned Stocks

Distribution/Deployment

- Airfields & Seaports
- Air & Sea Cargo
- Air & Sea Schedules
- Node Mapping Capability
- PAX
- Mission Itinerary
- Ships
- Cargo Movement

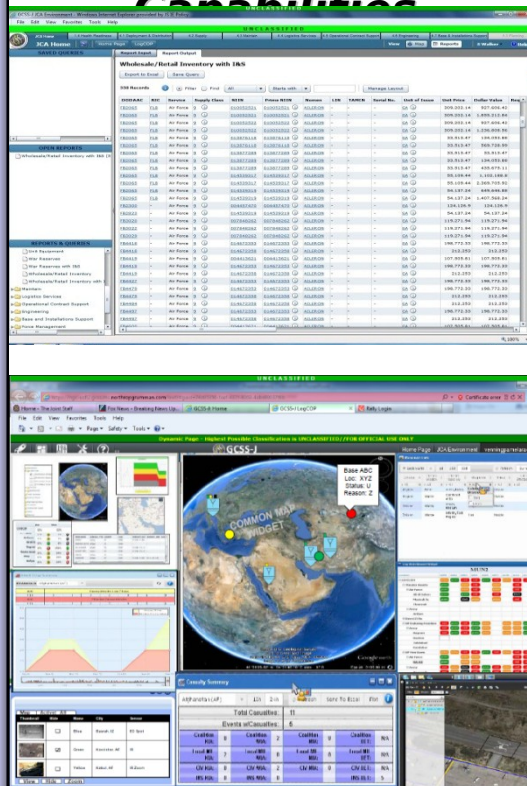
Planning

- TPFDD Viewer
- Force Readiness

Logistics Services

- Supporting Equipment

Current Operational Capabilities



Version 7.4.2 - Capabilities To Be Fielded Aug 14

Base & Installation Support

- Bases/FOBs/Border Crossings/RR Yards on Map
- Government & Military Facilities/Installations
- Energy Facilities
- Storage Facilities
- Land Infrastructure

Engineering

- Engineer Project Planning

Health Readiness

- Medical Facilities
- Class VIII Supplies

Maintenance & Operational Contract Support

- No Maintenance Capability
- Only DLA Fuel Contracts

Other

- 3-D Map
- Map Layers (Palanterra, GCSSJ, user)
- KMZ Files (Map Layers)
- 2-D Map

v7.4.2 Capabilities - Widgets

Item	Description	Data Source(s)
 Munitions Report Widget	Allows users to create, view, and save munitions supply data for DoD Identification Code (DODIC) and Navy Ammunition Logistics Code (NALC) for DoD Ammunition Supply Points and Depots, and map results.	NLAC
 Fuels Report Widget	Allows users to create, view, and save fuels supply data for Fuels Product Codes for DoD Fuel Points and map results. View includes limited Inventory Management Plan (IMP) data.	EEBP, WebREPOL, IMP (limited)
 Energy Facilities Widget	Allows users to locate and view US and Non-US Nuclear, Oil and Petroleum Facilities. Includes Refineries, Storage/Tank Farms, Gas Stations, and Nuclear Fuel Plants. All Non-US Facilities are SIPR only with URL for additional detailed information.	HSIP, MIDB (SIPR only)
 Storage Facilities Widget	Allows users to locate and view US (DoD / Civilian) and Non-US Warehouses and Cold Storage Facilities. All Non-US Facilities are SIPR only with URL for additional detailed information.	FAD, HSIP, MIDB (SIPR only)

v7.4.2 Capabilities - Widgets

Item	Description	Data Source(s)
 Government / Military Installations	Allows users to located and view US and Non-US Government and Military Installations and Facilities. All Non-US Installations and Facilities are SIPR only with URL for additional detailed information.	FAD, HSIP, MIDB (SIPR only)
 War Reserves / PREPO Widget (Phase 1: APS)	Allows users to create, view, and save Army Pre-positioned Stock (APS) On-Hand quantities. Inputs and filters include: APS, Location, Storage RIC, Project Code, UIC, Nomenclature, NSN, LIN, FSG/FSC, and Supply Class. Report Visualization Options: View by FSC, UIC, or Project Code. Mapping results is by Storage RIC.	IGC-AV
 Land Infrastructure Widget	Allows users to locate and view US and Non-US railroads, and tunnels. All Non-US Land Infrastructures are SIPR with URL for additional detailed information.	FAD, HSIP, MIDB (SIPR only)
 * Usage Widget	This widget is Internal to the GCSS-J PMO. Provides a tool for gathering various metrics on GCSS-J widget usage which includes Total number of users who logged into the system, total number of individual users, name of user, widgets accessed, and time accessed.	N/A

** Available to users with System Administrator privileges.*

v7.4.2 Capabilities - Widgets

Item	Description	Data Source(s)
 * Key Performance Parameter Widget	This widget is Internal to the GCSS-J PMO. This is the first phase of development to capture the responsiveness of the widgets. A small subset of the widgets will be included in this effort. The remaining widget KPP development will be completed in a future release.	N/A
 2D Map	Users can choose to map data on a 2D map, view all map feature icons, and all map pop-up contents. 2D map allows for icon labels on/off and allows for clustering of icons to de-clutter the view.	GVS (NGA)
 Cargo Movement Report Widget	Allows users to view retrograde and redeployment distribution data from U.S. TRANSCOM IGC and Army LIW systems. Currently CENTCOM (Afghanistan only).	IGC, LIW
Ships with Munitions, Fuels, or NSN Widgets	The combination of the Ships Widget and any combination of Munitions, Fuels, or NSN Widget will provide the appropriate supply icon above the ship in which the supply On-Hand quantities on-board the ship. Ships include Navy, Military Sealift Command (MSC), and Coast Guard.	ONI, NLAC, EEPB, IGC-AV

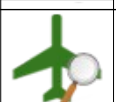
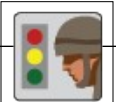
** Available to users with System Administrator privileges.*

v7.4.1 Capabilities-Widgets

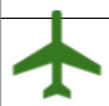
Item	Description	Source(s)
 *GCSS-J LogCOP	Ability to operate various Widgets in the LOGCOP. Functionality includes: 1. Launch Menu (launch Widgets) 2. Dashboards Creation & Switcher 3. Settings for users 4. Administration (administrators only) 5. Help	N/A
 GCSS-J Layers	View and use the GCSS-J map layers for the following: 1. Master Layers (map layers set by GCSS-J, common to all) 2. Community Layers (map layers the COCOMs and Agencies import)	MIDB, ONI, ITV, NGA, FAD, DLA-IPCIS
 Airfield Schedule	View the Airfield Schedule (arrivals/departures) for a specified ICAO, GEOLOC, or MILAIR and a date range. Mappable and synchronized to Mission Itinerary, Cargo, PAX, and Airfield Facility Details widgets.	IGC
 Seaport Schedule	View a Seaport Schedule (container ship arrivals) for a MILSEA and date range. Mappable and synchronized to the Cargo and Seaport Facility Details widget.	IGC
 TPFDD Viewer	Display a graphic visualization of a TPFDD for a specified OPLAN, with filtering by: ULN, UTC, EAD, LAD, RDD, POD, POE, Destination, Origin. Results are mappable.	JOPES

* Not a widget

v7.4.1 Capabilities-Widgets

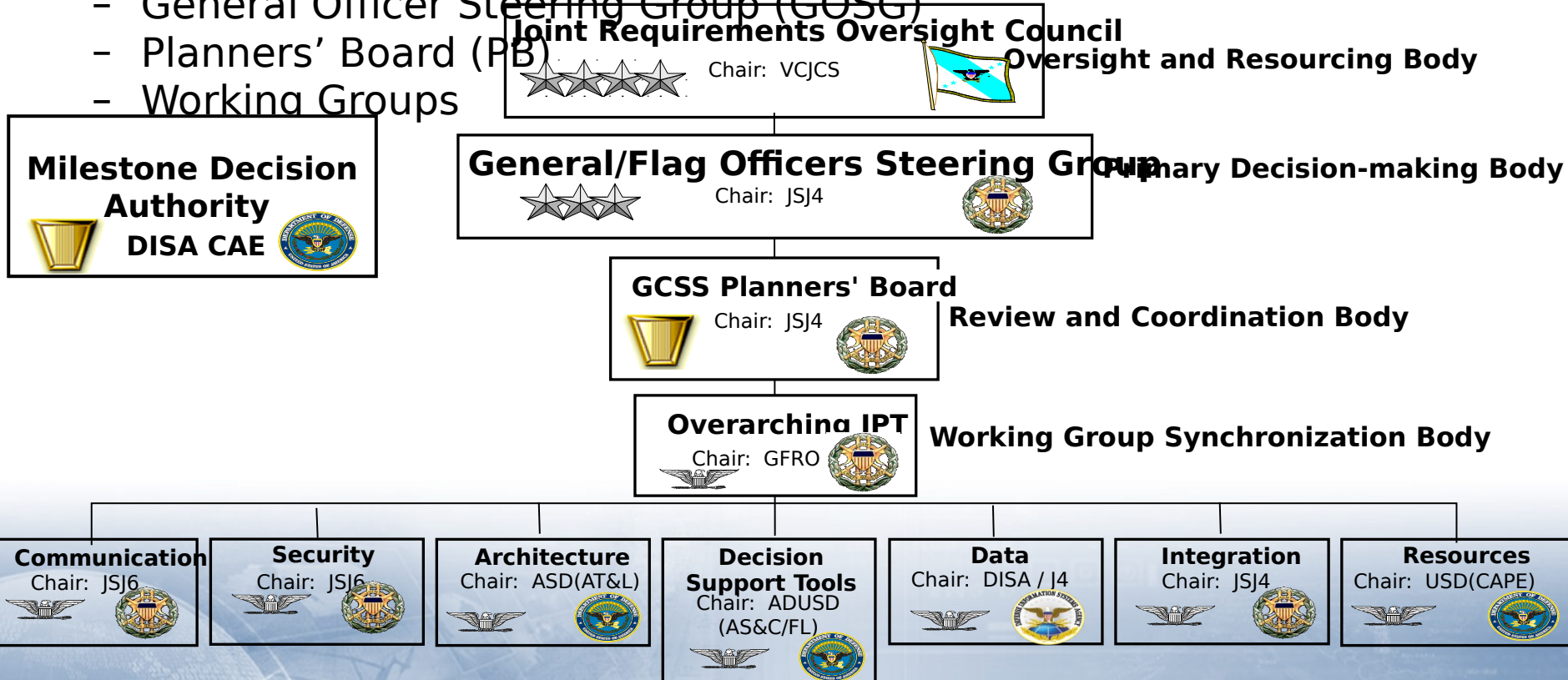
Item	Description	Source(s)
 Seaports	Display a result set of seaports queried by MILSEA or synchronized with map - no initial input or filter required. Synchronized with the Seaports Schedule and Seaport Facility Details widget.	NGA-WPI JOPES- GEOLOC
 PAX	Display the Passengers associated with an airlift Mission ID. Lists of passengers are displayed by mission leg. Synchronized to Mission Itinerary and Cargo widgets.	GDSS
 Airfields	Search for individual airfields by ICAO, MILAIR or GEOLOC, or search for all airfields that meet specified Runway Length/Width, NGA Max Usage, or AMC Suitability. Mappable, and when synchronized with map, no initial input or filters required. Synchronized with Airfield Schedule and Airfield Facility Details widgets.	NGA- AAFIF GDSS
 Mission Itinerary	Displays an itinerary for support aircraft from GDSS. Input is Mission ID (specified manually or from synchronization with the Airfield Schedule widget). Mappable and synchronized with the Cargo and PAX widgets.	GDSS
 Force Readiness	Displays unit readiness details from GSORTS or DRRS-S (when fielded) filterable by Geographical Region, Service, Component, Unit Role, UTC, UIC, Readiness Type, Readiness Category, and Readiness Rating. Mappable and synchronizes with map.	GSORTS (DRRS)
 Ships	Search for individual ships by Ship Name or UIC or search for all U.S. flagged ships based on ship type (Carriers, Destroyers, Oilers, General Cargo, Coast Guard, etc.). Mappable and synchronized with the map.	ONI

v7.4.1 Capabilities-Widgets

Item	Description	Source(s)
 Airfield Facility Details	Displays General Airfield info, Runways, Aprons, Hardstands, Helipads, Taxiways, and Suitability for a given ICAO, GEOLOC or MILAIR code. Synchronized with the map and Airfield Schedule.	NGA-AAFIF GDSS
 Bulk Fuel IMP	Graphically displays the Inventory Management Plan for a given DODAAC and fuel Product Code, selectable from a picklist. The current inventory is superimposed on the graphic.	IMP Spreadsheet FES, REPOL
 Cargo	Displays cargo associated with a Ship Name or Air Mission ID. For Ships, filterable by Status and cargo POD. For Air, cargo is displayed by mission leg. Synchronized with Cargo Content widget.	IGC GDSS
 NSN Report	Displays Wholesale and Retail inventories based on user specified Commodities (NSNs and NIINs) and Supply Points (DODAACs). The results are displayed in a hierarchical structure of Commodity Groups, DODAACs, and NSNs	IGC-AV
 Cargo Content	Displays the cargo items associated with a specified Container, Pallet, RF Tag, or TCN. Receives broadcasted values from the Cargo widget.	IGC ITV
 Medical Facilities	Displays Medical Facilities (hospitals, clinics, blood banks, pharmacies, and medical/dental) using data from FAD, HSIP, and MIDB. Filterable and synchronized with the map. Facility details displayed in map popup associated with facility icon.	MIDB HSIP FAD
Seaport Facility	An enhancement to the 7.4 Seaport Berths widget to add MILSEA as an input and provide additional general	NGA-WPI GDSS

Requirements Validation

- Requirements are validated by the functional sponsor, Director for Logistics, Joint Staff J-4; priorities established by the governing body, Planners' Board, which meets quarterly
- CJCSI 6723.01B: Global Combat Support System Family of Systems
- Requirements Management and Governance Structure**
 - General Officer Steering Group (GOSG)
 - Planners' Board (PB)
 - Working Groups



Why use GCSS-J

- **A Logistics “One Stop Shop”** — Provides **access** to several disparate authoritative data sources and applications via **single sign-on** to the Web portal...***no “swivel-seat management!”***
- **Accessible** — “Set up” requires only a browser, Google Earth Plug-in, and PKI Hard Token for SIPRNet/CAC for NIPRNet.
- **Enhanced Situational Awareness** — GCSS-J provides enhanced situational awareness of the resources & capabilities available in the operational area of interest. Visualizations, in the form of map layers, watchboards, and a user-defined **Logistics Common Operational Picture (LogCOP)** give users & organizations the ability to customize how information is viewed, meeting both individual section officer needs and the organization's ***Must Overcome “Swivel Seat Management”*** operational mission.
- **Technology** – developed using commercial trends (widgets/Apps)

Development Processes

Traditional Development Process

- **Release comprised of 12 to 18-month development cycles**
 - 18-24 months to deploy capability
- **No chance for requirements clarification**
 - Limited user engagement until the end
 - Potential for a great deal of wasted work
- **Closed, heavyweight process**

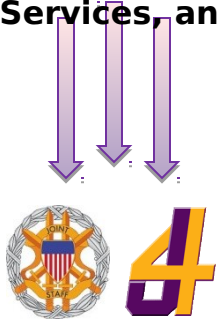
Agile Development Process

- **Release comprised of four 20-day development cycles**
 - 6-12 months to deploy capability
- **Opportunities to make adjustments**
 - **First Look Site** allows users to “play” with the developing system and provide timely feedback
 - User Assessments after sprint development cycles
 - Test Data has multiple values
 - Influences functionality
 - Used by JITC & DIA for testing assessments
 - **Requirements validated with users every sprint**
 - Requires constant user engagement
 - Minimize wasted work

Agile Development Process

Requirements from

CCMD,
Services, and Agencies



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

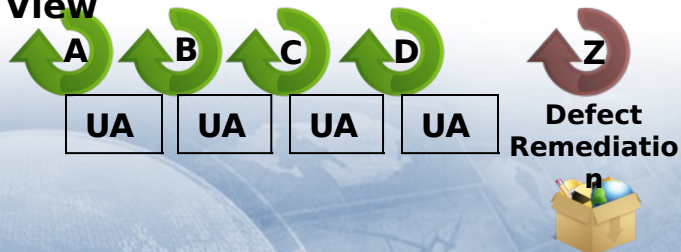
Requirements
prioritized in
product
backlog by
the Joint Staff

System
Developers

1
Sprint Planning

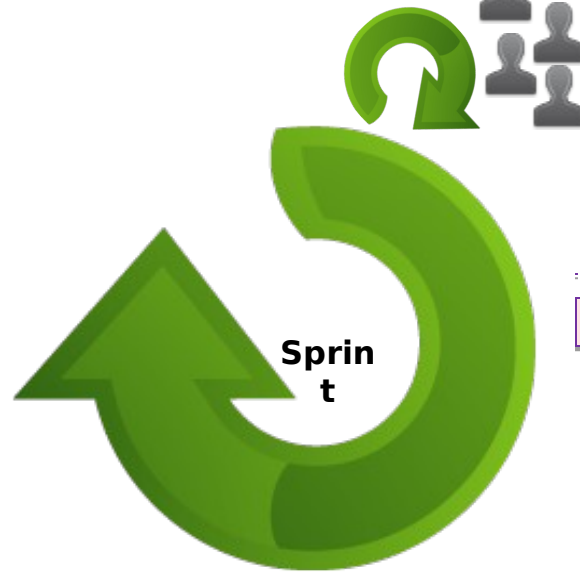
1a
1b
1c
Sprint Backlog

Macro
View



20-Day Development
Cycle

Daily meetings with the
Government Program Office and
Development Team



Potentially
Deployable
Product



User
Assessment

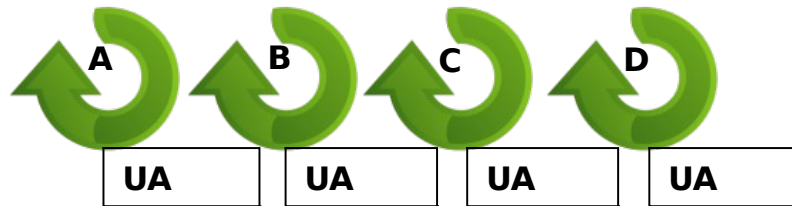
Requirements from

CCMD,
Services, and Agencies

User Assessments

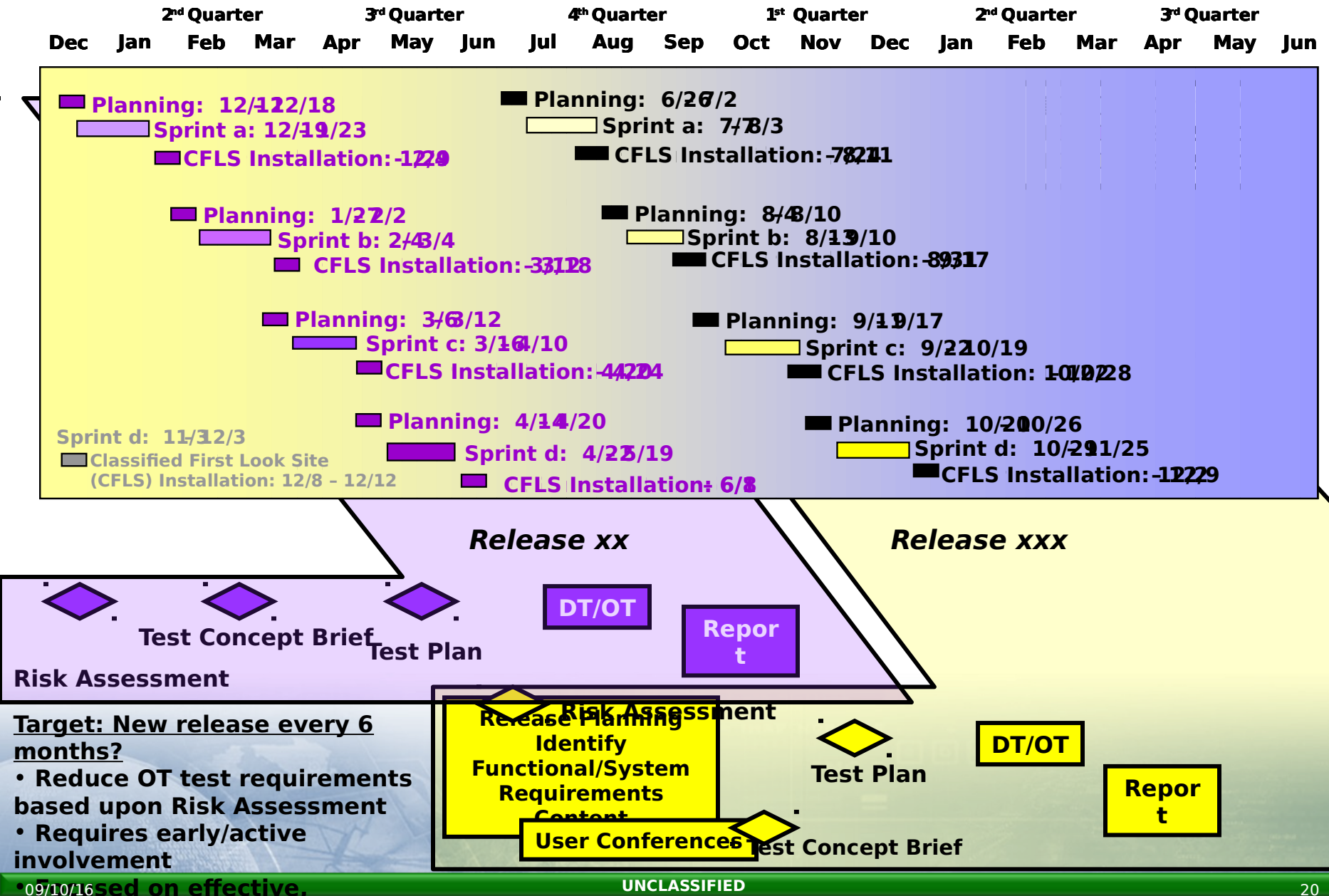
GCSS-J conducts User Assessments (UA) approximately every 30-45 days. These assessments enable users to preview new capabilities and enhancements under development, and provide an opportunity for users to submit comments/feedback directly to the GCSS J Program Office and Joint Staff J4

Macro View

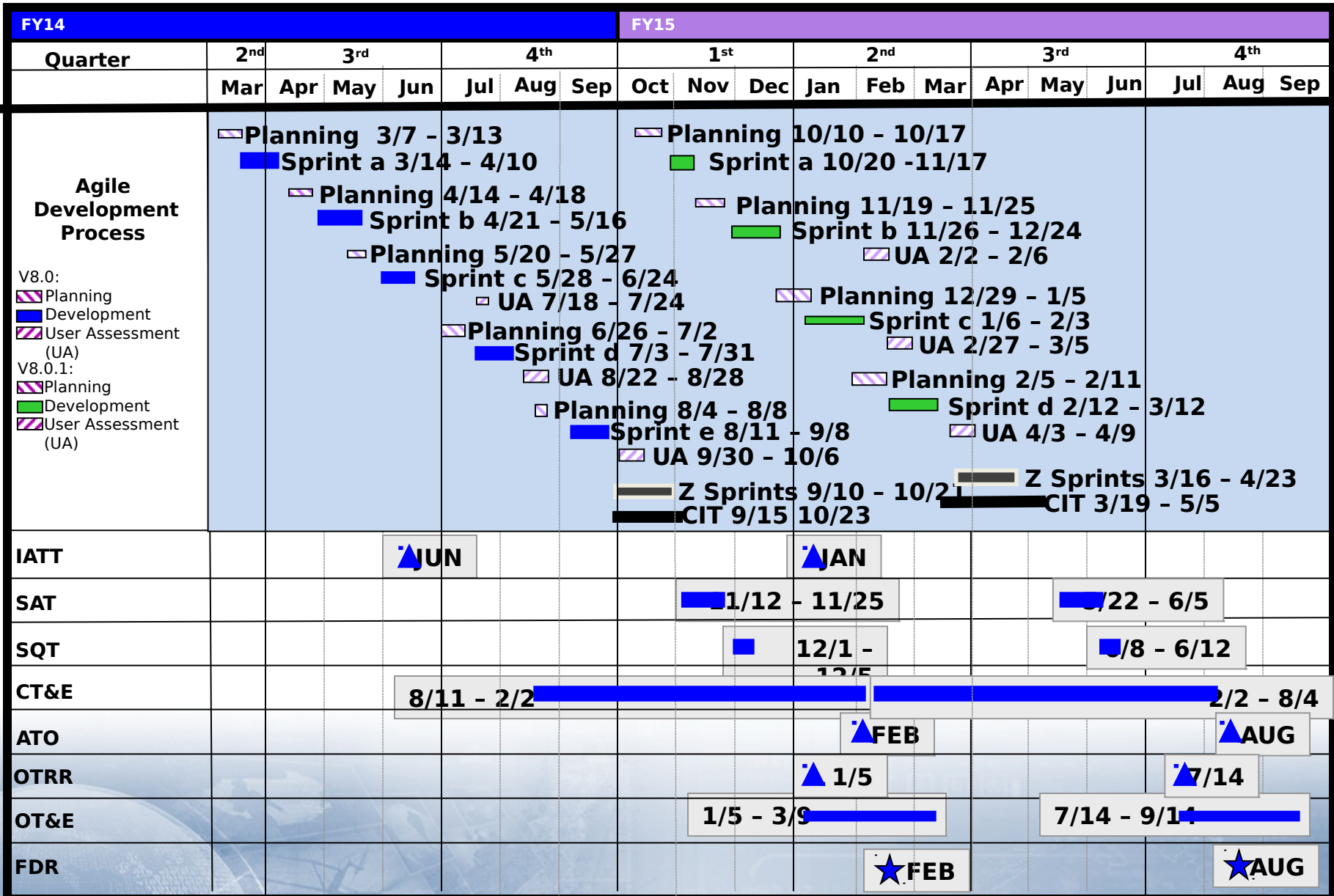


To participate in GCSS-J User Assessments contact the GCSS-J Quality Assurance Team at david.j.whittington3.civ@mail.mil or kelly.d.lane8.civ@mail.mil or the Joint Staff at js.pentagon.j4.mbx.gcss-j2@mail.mil

Integrated Test Process



GCSS-J v8.0/v8.0.1 Schedule



Summary

- Supports the Combatant Command and Joint Task Force Commanders
- Vision: Dynamic Logistics -> Nothing Constrained -> Everything Possible
- Enhanced decision support tools and situational awareness to the Warfighter
- Available on both the SIPRNet and NIPRNet
- Agile development enables new or enhanced capabilities fielded every 6 months
- Continue to remain flexible seeking user inputs & new ways to improve processes

